

ABSTRACT

A turbine, e.g., with a blade arrangement, which receives an air flow in the radial direction and which is located on a carrier surface of the turbine wheel, is used as a drive motor for a rotary atomizer. The drive channel, which contains the turbine blades and which is limited by the carrier surface, is also closed on its other side by a cover element, which is attached to the turbine wheel and which rotates with the wheel for increasing efficiency. For an additional increase in efficiency, the inlet for the drive air of the turbine is configured as an ultrasonic nozzle with a cross section that expands continuously up to the opening.